

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

TRANSLATION
PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing (day/month/year) **28. 03. 2005**

Applicant's or agent's file reference

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/RU2005/000031

International filing date (day/month/year)

03. 02. 2005

Priority date (day/month/year)

30. 06. 2004

International Patent Classification (IPC) or both national classification and IPC

A47C1/00, B60N2/00, A63B23/035

Applicant

SOLODOVNIKOV, Vladimir Alexandrovich

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/RU

Authorized officer

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Telephone No.

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Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language .
_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-17	YES
	Claims		NO
Inventive step (IS)	Claims	1-17	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-17	YES
	Claims		NO

2. Citations and explanations:

Sources of information:

D1 US 5470298 A
D2 DE 3817419 A1
D3 US 5498222 A
D4 US 5234394 A
D5 WO 1997/045168 A1

D1 is the closest prior art with respect to the claimed invention.

D1 discloses a chair comprising a base, seat, backrest and hollow armrests and built-in means for exercising the arms and legs, wherein the devices for the arms contain a pivoted power lever kinematically connected to a piston loading device.

The invention as per claim 1 differs from that known from D1 in that each device for the arms is in the form of a self-contained module, the units for the attachment thereof to the chair having three degrees of freedom, which makes it possible for the module to rotate in relation to three mutually perpendicular axes and be

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fixed in neutral and working positions, the means for exercising the legs is equipped with two leg exercising devices mounted in the armrests to the right and left of the seat, said exercising devices having pivoted levers with footrests and each being in the form of a self-contained module mounted in the armrest cavity below the arm exercising devices. Each of the four exercising devices is provided with a pneumatic piston loading device and the chair is equipped with a single system for regulating the force on the pivoted levers of all the exercising devices.

This chair design with its conventional exterior has extensive functional and operational capabilities and makes it possible for the user to control each means according to his wishes, selecting the chair operating mode best suited to him and the most comfortable body position in the chair.

D2-D5 disclose chairs equipped with means for exercising the arms and legs, however, they all have a configuration that is not suitable for office and domestic conditions owing to the external, non-compact positioning of the exercising means and have a limited range of exercises that can be performed.

Therefore, the distinguishing features of claim 1 enumerated above are not known from the prior art, as a result of which claims 1-17 meet the requirements for novelty and inventive step.

The invention as per claims 1-17 meets the requirement

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for industrial applicability.